

## CLAIMS

1. A voice coil motor of the movable coil type comprising:
  - a stator of a permanent magnet which becomes a magnetic field; and
  - a movable element of an armature coil, wherein the armature coil is formed into a coil-shape having a cavity portion, and
  - a reinforcing beam made of non-magnetic and highly rigid material is formed at a substantial center of the cavity portion.
2. A voice coil motor of the movable coil type comprising:
  - a stator of a permanent magnet which becomes a magnetic field; and
  - a movable element of an armature coil, wherein a highly rigid reinforcing member, the shape of which is the same as the coil section, is arranged at an end face of the coil.
3. A voice coil motor of the movable coil type comprising:
  - a stator of a permanent magnet which becomes a magnetic field; and
  - a movable element of an armature coil, wherein the armature coil is formed into a coil-shape having a cavity portion,
  - a reinforcing beam made of non-magnetic and highly rigid material is formed at a substantial center of the cavity portion, and
  - a highly rigid reinforcing member, the shape of which is the same as the coil section, is arranged at an end face of the coil.